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1 [Host mobility using an internet indirection infrastructure](#)

Shelley Zhuang, Kevin Lai, Ion Stoica, Randy Katz, Scott Shenker

November 2005 **Wireless Networks**, Volume 11 Issue 6.

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(1.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose the Robust Overlay Architecture for Mobility (ROAM) to provide seamless mobility for Internet hosts. ROAM is built on top of the Internet Indirection Infrastructure (/3). With /3, instead of explicitly sending a packet to a destination, each packet is associated with an identifier. This identifier defines an indirection point in /3, and is used by the receiver to obtain the packet. ROAM takes advantage of end-host ability to control the placement of indirection poi ...

**Keywords:** ROAM, internet infrastructure, mobility, overlay networks

2 [Hierarchically-organized, multihop mobile wireless networks for quality-of-service support](#)

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(429.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foundation on which to build mechanisms for quality-of-service provision in large, multihop mobile wireless networks. Such networks are a practical means for creating a communications infrastructure where none yet exists or where the previously existing infrastructure has been severely damaged. These networks provide communications for such diverse purposes as tactical maneuvering and strategic planning ...

3 [Host Mobility Using an Internet Indirection Infrastructure](#)



Shelley Zhuang, Kevin Lai, Ion Stoica, Randy Katz, Scott Shenker

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

**Publisher:** ACM Press


Full text available: pdf(421.23 KB)

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4 Routing and handoff in the edge mobility architecture

 Alan O'Neill, M. Scott Corson, George Tsirtsis  
October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(1.75 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We consider a future IP network architecture in which the core topology is fixed but where the hosts at the edge of the network may be mobile, as is the case in cellular networks. Within this architecture, Mobile-Enhanced Routing (MER) protocols are used to support the prefix-routed requirements of the fixed Internet, along with the movement of IP addresses allocated to mobile nodes. We outline a specific components for the support of such edge mobility (EMA:MER) that offers fixed/mobile IP netw ...

5 Papers from MC<sup>2</sup>R open call: A distributed and secured architecture to enhance smooth handoffs in wide area wireless IP infrastructures

 Kaouthar Sethom, Hossam Afifi, Guy Pujolle  
July 2006 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 10 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(287.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Currently, there exist disparate wireless networks, such as Bluetooth for personal areas, wireless LANs (WLANs) for local areas, GSM and UMTS for wide areas. These networks are designed for specific service needs and vary widely in terms of bandwidth, latency, area of coverage, cost, and quality of service (QoS) provisioning. None of the existing wireless systems can simultaneously satisfy the low latency, high bandwidth, and ubiquitous coverage needs of mobile users at low cost. In next generat ...

**Keywords:** fast handoff, mobile networks, wireless technologies

6 Papers: Cellular IP: a new approach to Internet host mobility

 András G. Valkó  
January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes a new approach to Internet host mobility. We argue that by separating local and wide area mobility, the performance of existing mobile host protocols (e.g. Mobile IP) can be significantly improved. We propose Cellular IP, a new lightweight and robust protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area mobility support. Cellular IP shows great benefit in comparison to existing host mobility proposals for environm ...

7 Poster session: Two privacy enhanced context transfer schemes

Giorgos Karopoulos, Georgios Kambourakis, Stefanos Gritzalis  
October 2007 **Proceedings of the 3rd ACM workshop on QoS and security for wireless and mobile networks Q2SWinet '07**

**Publisher:** ACM

Full text available:  [pdf\(1.00 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Foreseeable 4G environments will extensively take advantage of the concept of context transfer to provide seamless secure handovers between different administrative domains. However, the utilization of context transfer comes with a cost in the users' privacy. The

purpose of this paper is to elaborate on these privacy issues and propose two privacy enhanced context transfer schemes that alleviate these problems. In the first scheme the Mobile Node (MN) is responsible for the transmission of th ...

**Keywords:** all-IP networks, context transfer, network access identifier, privacy, secure handover

8 MobileNAT: a new technique for mobility across heterogeneous address spaces

Milind Buddhikot, Adiseshu Hari, Kundan Singh, Scott Miller  
June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new network layer mobility architecture called MOBILENAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses - an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only within ...

**Keywords:** MOBILENAT, design, experimentation, mobility

9 Best poster papers from MobiHoc 2002: Virtual operator based AAA in wireless LAN hot spots with ad-hoc networking support

 Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu  
June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(180.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sound and effective authentication, authorization and accounting (AAA) schemes for convenient and secure mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One possible scheme, which uses the mobile users' service providers as the single point of contact for all AAA transactions, is emerging as a very promising solution. We refer to such service providers as "virtual operators". In this paper, we discuss va ...

10 Secure multicast in wireless networks of mobile hosts: protocols and issues

Danilo Bruschi, Emilia Rosti  
December 2002 **Mobile Networks and Applications**, Volume 7 Issue 6

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(145.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Multicast services and wireless interconnection networks are among the emerging technologies of the last decade. A significant amount of research has been separately performed in the areas of secure multicast and wireless interconnection networks. In this paper we investigate the issues of designing secure multicast services in wireless mobile environments for dynamic groups and propose protocols for key management for a variety of scenarios. Our solution decouples mobility management from group ...

**Keywords:** mobility, multicast, security, trust, wireless networks

11 Roaming and handoff management: An end-to-end multi-path smooth handoff scheme for stream media



Yi Pan, Meejeong Lee, Jaime Bae Kim, Tatsuya Suda

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

**Publisher:** ACM Press

Full text available: pdf(481.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the near future, wide variety of wireless networks will be merged into the Internet and allow users to continue their application with higher degree of mobility. In such environment, multimedia applications, which require smooth rate transmission, will become more popular. There are two main reasons that cause difficulties in the smooth transmission of stream media application when a user roams around the wireless mobile networks: 1) packets may get lost due to the re-routing caused by handoff ...

**Keywords:** congestion avoidance, handoff, multi-layer video encoder, slow start

12 Client-server computing in mobile environments



Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

**Publisher:** ACM Press

Full text available: pdf(233.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

13 A distributed control strategy for wireless ATM networks

M. Veeraraghavan, T. F. La Porta, R. Ramjee

August 1995 **Wireless Networks**, Volume 1 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(609.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Cellular networks are expected to be upgraded to offer Personal Communication Services (PCS). The mobility management and wireless call control approach used in cellular networks are currently being proposed for use in PCS networks. Recent work indicates that both the signaling load and database update rates caused by these mobility management and call control procedures will increase significantly in next generation PCS networks. In this paper, we propose and analyze a new cluster-based ar ...

14 Poster session: Link layer assisted mobility support using SIP for real-time multimedia communications



Wooseong Kim, Myungchul Kim, Kyounghee Lee, Chansu Yu, Ben Lee

October 2004 **Proceedings of the second international workshop on Mobility management & wireless access protocols MobiWac '04**

**Publisher:** ACM Press

Full text available:  [pdf\(302.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Session Initiation Protocol (SIP) was standardized for real-time applications and extended to support terminal mobility by Internet Expert Task Force (IETF). However, SIP terminal mobility suffers from the considerable handoff latency which is unsuitable for the real-time communications. In this paper, we propose Predictive Address Reservation with SIP (PAR-SIP) which decreases handoff delay by proactively processing the address allocation and session update using link layer information of wirel ...

**Keywords:** SIP mobility support, predictive address reservation, real-time multimedia communications

15 Proxies + path prediction: improving Web service provision in wireless-mobile communications

Stathes Hadjiefthymiades, Lazaros Merakos

August 2003 **Mobile Networks and Applications**, Volume 8 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(255.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile computing is considered of major importance to the computing industry for the forthcoming years due to the progress in the wireless communications area. A proxy-based architecture for accelerating Web browsing in wireless customer premises networks is presented. Proxy caches, maintained in base stations, are constantly relocated to follow the roaming user. A cache management scheme is proposed, which involves the relocation of full caches to the most probable cells but also percentages of ...

**Keywords:** cache relocation, caching proxy, mobile computing, path prediction algorithm

16 Mobility support using SIP



Elin Wedlund, Henning Schulzrinne

August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia WOWMOM '99**

**Publisher:** ACM Press

Full text available:  [pdf\(711.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Network layer access control for context-aware IPv6 applications

Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies

July 2003 **Wireless Networks**, Volume 9 Issue 4

**Publisher:** Kluwer Academic Publishers

Full text available:  [pdf\(3.57 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture utilises packet marking and network level packet ...

**Keywords:** authentication, mobile IPv6, public access point, security, wireless Internet

18

Using proxy cache relocation to accelerate Web browsing in wireless/mobile



## communications

Stathes Hadjiefthymiades, Lazaros Merakos

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

**Publisher:** ACM Press

Full text available: pdf(321.90 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** W4, cache relocation, learning automaton, mobile computing, path prediction, proxy cache

### 19 [IP micro-mobility protocols](#)



Andrew T. Campbell, Javier Gomez-Castellanos

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

### 20 [A layered protocol architecture for multimedia wireless-PCS networks](#)

Antonio Iera, Salvatore Marano, Antonella Molinaro

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available: pdf(575.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Coupled with the growing interest in the Universal Mobile Telecommunication System (UMTS) as a standard for future mobile communications, the need for a set of functions to effectively support multimedia teleservices in such an environment is also increasing. Starting from the idea that multimedia means the integrated manipulation of different information and hence the independent handling of separate information is not satisfactory, an enhanced protocol architecture for the support of mult ...

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### 1 [Hierarchically-organized, multihop mobile wireless networks for quality-of-service support](#)

Ram Ramanathan, Martha Steenstrup

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1**Publisher:** Kluwer Academic Publishers
 Full text available: pdf(429.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

MMWN is a modular system of adaptive link- and network-layer algorithms that provides a foundation on which to build mechanisms for quality-of-service provision in large, multihop mobile wireless networks. Such networks are a practical means for creating a communications infrastructure where none yet exists or where the previously existing infrastructure has been severely damaged. These networks provide communications for such diverse purposes as tactical maneuvering and strategic planning ...

### 2 [Host mobility using an internet indirection infrastructure](#)

Shelley Zhuang, Kevin Lai, Ion Stoica, Randy Katz, Scott Shenker

November 2005 **Wireless Networks**, Volume 11 Issue 6**Publisher:** Kluwer Academic Publishers
 Full text available: pdf(1.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose the Robust Overlay Architecture for Mobility (ROAM) to provide seamless mobility for Internet hosts. ROAM is built on top of the Internet Indirection Infrastructure (i3). With i3, instead of explicitly sending a packet to a destination, each packet is associated with an identifier. This identifier defines an indirection point in i3, and is used by the receiver to obtain the packet. ROAM takes advantage of end-host ability to control the placement of indirection poi ...

**Keywords:** ROAM, internet infrastructure, mobility, overlay networks

### 3 [Host Mobility Using an Internet Indirection Infrastructure](#)



Shelley Zhuang, Kevin Lai, Ion Stoica, Randy Katz, Scott Shenker

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03****Publisher:** ACM Press
 Full text available: pdf(421.23 KB) Additional Information: [full citation](#), [index terms](#)



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**Keywords:** ROAM, internet infrastructure, mobility, overlay networks

3 [On programmable universal mobile channels in a cellular Internet](#)



Raymond R.-F. Liao, Andrew T. Campbell

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '98**

**Publisher:** ACM Press





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**Keywords:** ROAM, internet infrastructure, mobility, overlay networks

3 [Services: A mobility-aware broadcasting infrastructure for a wireless internet with hotspots](#)



Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

**Publisher:** ACM Press

Full text available: pdf(292.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider the problem of adaptively delivering live multimedia broadcasts (e.g. for applications such as TV, radio, or e-cinema) to a potentially large number of mobile hosts th


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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

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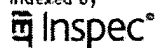
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### 1 EAP Issues

... s Called-Station-**Id** or NAS-**Identifier** > in communicating with the EAP peer ... Calling-Stat  
[RFC2865][RFC3580], NAS-**Identifier** ...  
<http://www.drizzle.com/~aboba/EAP/eapissues3.html>

### 2 Diameter Issues

... should be DiameterIdentity **Session-Id** should be UTF8String Source-Route should ... things  
alphabetical order, **Session**-Binding ...  
<http://www.drizzle.com/~aboba/AAA/issues2.html>

### 3 Method for updating an R-P connection for a **roaming** mobile station - ...

The session\_ID is an **identifier** that uniquely indicates a particular instance ... registered Cell\_  
session\_ID, and a PPP **identifier** in ...  
<http://www.patentgenius.com/patent/6580699.html>

### 4 Microsoft Corporation 26 October 2003 **Handoff** Extension to RADIUS

... well as an Acct-**Session-Id** allocated by the NAS for the **handoff**, should it occur. ... NAS-Id  
[Note 2] 0+ 0+ 0+ 33 Proxy-State 0 ...  
<http://www.watersprings.org/pub/id/draft-irtf-aaaarch-handoff-04....>

### 5 Microsoft 20 May 2003 Experimental **Handoff** Extension to RADIUS This

... well as an Acct-**Session-Id** allocated by the NAS for the **handoff**, should it occur. ... NAS-Id  
[Note 2] 0+ 0+ 0+ 33 Proxy-State 0 ...  
<http://www.watersprings.org/pub/id/draft-irtf-aaaarch-handoff-02....>

### 6 Microsoft Word - Fast **Handoff** Acct v2.doc

... of the **new** R-P **Session ID**. The target PDSN starts timer Thandoffreq. 17 g. The PP-**Hando**  
validated and ...  
[http://ftp.3gpp2.org/Archive/TSGP%20\(inactive\)/Working/2001/20010...](http://ftp.3gpp2.org/Archive/TSGP%20(inactive)/Working/2001/20010...)

### 7 System and method for improved **session** management in a data cellular ...

... establishes a **new session** and allocates a **new** Unicast Access Terminal **Identifier** (UATI).  
negotiation, each AN establishes a ...  
<http://freepatentsonline.com/7103662.html>

### 8 irtf-aaaarch-handoff-04.txt

... well as an Acct-**Session-Id** allocated by the NAS for the **handoff**, should it occur. ... NAS-Id  
[Note 2] 0+ 0+ 0+ 33 Proxy-State 0 ...  
<http://cidr-report.org/ietf/idref/draft-irtf-aaaarch-handoff>

### 9 J. Arkko 17 July 2005 Ericsson P. Eronen Nokia H. Levkowitz, Ed.

... in Appendix E. **Session-ID** The **Session-ID** uniquely identifies an EAP **session** between ...  
Peer-**ID**, Server-**ID**, Bindings | | ...  
<http://www.potaroo.net/ietf/all-ids/draft-ietf-eap-keying-07.txt>



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1 **RADEXT Issues**

... definition for "**session**", the RADIUS server MAY treat a "retransmit with **new ID**" as a difference ... a **new ID**" is that the old ...

<http://www.drizzle.com/~aboba/RADEXT/radissues2.html>

2 **Method for updating an R-P connection for a roaming mobile station - ...**

The session\_ID is an **identifier** that uniquely indicates a particular instance ... registered Cell\_ID, session\_ID, and a PPP **identifier** in ...

<http://www.patentgenius.com/patent/6580699.html>

3 **Microsoft Corporation 26 October 2003 Handoff Extension to RADIUS**

... well as an Acct-**Session-Id** allocated by the NAS for the **handoff**, should it occur. ... NAS-IP-Address [Note 2] 0+ 0+ 0+ 33 Proxy-State 0 ...

<http://www.watersprings.org/pub/id/draft-irtf-aaaarch-handoff-04...>

4 **Microsoft Word - Fast Handoff Acct v2.doc**

... of the **new R-P Session ID**. The target PDSN starts timer Thandoffreq. 17 g. The PP-**Handoff** is validated and ...

[http://ftp.3gpp2.org/Archive/TSGP%20\(inactive\)/Working/2001/20010...](http://ftp.3gpp2.org/Archive/TSGP%20(inactive)/Working/2001/20010...)

5 **System and method for improved session management in a data cellular ...**

... establishes a **new session** and allocates a **new** Unicast Access Terminal **Identifier** (UATI). During negotiation, each AN establishes a ...

<http://freepatentsonline.com/7103662.html>

6 **irtf-aaaarch-handoff-04.txt**

... well as an Acct-**Session-Id** allocated by the NAS for the **handoff**, should it occur. ... NAS-IP-Address [Note 2] 0+ 0+ 0+ 33 Proxy-State 0 ...

<http://cidr-report.org/ietf/idref/draft-irtf-aaaarch-handoff>

7 **Network Working Group Request for Comments: 4004 P. Calhoun ...**

AMR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo HAR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo ...



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**1** [RADEXT Issues](#)

... including a **Session-Id AVP** and a Re-Auth-Request-Type **AVP** with value "AUTHORIZE ON copy the contents of the Acct-**Session-Id** ...

<http://www.drizzle.com/~aboba/RADEXT/radissues2.html>

**2** [| AAAH | +-> | server | server-server | server](#)

Node-Address **AVP**. The HA MUST include an Accounting-Multi- **Session-Id AVP** in the HAA rel Accounting-Multi-**Session-Id** when ...

<http://www.ietf.org/proceedings/02mar/I-D/draft-ietf-aaa-diameter...>

**3** [Network Working Group Request for Comments: 4004 P. Calhoun ...](#)

AMR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo HAR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo ...

<http://www.ietf.org/rfc/rfc4004.txt>

**4** [RFC 4004 \(rfc4004\) - Diameter Mobile IPv4 Application](#)

AAA ----> AMR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo HAR-----> **Session-Id** = foo ...

<http://www.faqs.org/rfcs/rfc4004.html>

**5** [RFC 4004 - Diameter Mobile IPv4 Application](#)

AAA ----> AMR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo HAR-----> **Session-Id** = foo ...

<http://ip-doc.com/rfc/rfc4004>

**6** [RFC4004 - Diameter Mobile IPv4 Application](#)

AAA ----> AMR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo HAR-----> **Session-Id** = foo ...

<http://rfc.archivesat.com/rfc4004.htm>

**7** [Enscript Output](#)

AMR-----> **Session-Id** = foo AMR-----> **Session-Id** = foo HAR ... **Id** = foo AMR--  
**Session-Id** = foo ...





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**1** [RADEXT Issues](#)

Acct-**Session-Id Attribute** into the **Session-Id AVP**; otherwise, it will need to map the Acct-**value** to ...

<http://www.drizzle.com/~aboba/RADEXT/radissues2.html>

**2** [hiller-3gwireless-00.txt](#)

... between VLR to HLR **AVP Attribute Value** Parameter External Network A network not owned  
IP RRQ \* NAI \* **Session ID** \* FA ...

<http://www.potaroo.net/ietf/idref/draft-hiller-3gwireless>

**3** [HTTP/1.1 200 OK Date: Tue, 09 Apr 2002 00:22:19 GMT Server: ...](#)

... between VLR to HLR **AVP Attribute Value** Parameter External Network A network not owned  
IP RRQ \* NAI \* **Session ID** \* FA ...

<http://www.potaroo.net/ietf/all-ids/draft-hiller-3gwireless-00.tx...>

**4** [INTERNET DRAFT Tom Hiller \(editor\) Category: Informational Lucent](#)

... between VLR to HLR **AVP Attribute Value** Parameter External Network A network not owned  
IP RRQ \* NAI \* **Session ID** \* FA ...

<http://www.ietf.org/proceedings/99mar/I-D/draft-hiller-3gwireless...>

**5** [| AAAH | +->| server | server-server | server](#)

Node-Address **AVP**. The HA MUST include an Accounting-Multi- **Session-Id AVP** in the HAA returned  
Accounting-Multi-**Session-Id** when ...

<http://www.ietf.org/proceedings/02mar/I-D/draft-ietf-aaa-diameter...>

**6** [Ericsson Inc Charles E. Perkins Nokia Research Center August 2002](#)

Node-Address **AVP**. The HA MUST include an Acct-Multi-**Session-Id AVP** in the HAA returned .  
**Session-Id** when receiving an HAR for ...

<http://ietfreport.isoc.org/all-ids/draft-ietf-aaa-diameter-mobile...>

**7** [Ericsson Inc Charles E. Perkins Nokia Research Center April 2002](#)

Node-Address **AVP**. The HA MUST include an Accounting-Multi-**Session-Id AVP** in the HAA returned  
Accounting-Multi-**Session-Id** when receiving ...

<http://ietfreport.isoc.org/all-ids/draft-ietf-aaa-diameter-mobile...>

**8** [RFC4004 Diameter Mobile IPv4 Application](#)

Request ASR Abort-**Session-Request AVP Attribute Value** Pair CoA Care-of-Address ... AMR-  
**Session-Id** = foo AMR-----> ...

<http://occcsa.com/rfc/rfc4004.htm>

**9** [clean.PDF](#)

43 A-9 **HANDOFF** BETWEEN RNS WHEN THE PACKET ZONE **ID** CHANGES **AND** THE MS IS 44 .  
Request 13 **AVP Attribute Value** Parameter 14 CHAP ...

[http://ftp.3gpp2.org/TSGS/Working/\\_1999/TSG-S\\_1999-11/S00-1999111...](http://ftp.3gpp2.org/TSGS/Working/_1999/TSG-S_1999-11/S00-1999111...)

**10** [lior-radius-prepaid-extensions-11.txt](#)

4.2. **Session Termination Attribute** . . . . . 34 4.3. PPAQ ... 4.3.1. Quota **Identifi**  
. . . . .

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	communication same session\$4 same wireless same (session adj3 (ID or identifier)) same server same base adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 17:15
L2	3	communication same session\$4 same wireless same (session adj3 (ID or identifier)) same server same base adj station	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 17:22
L3	71	wireless same base adj station and (ISP or switch or proxy) and server and (AVP or attribute adj value adj pairs)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 17:22
L4	5	wireless same base adj station and (ISP or switch or proxy) and server and (AVP or attribute adj value adj pairs) same (session adj3 (ID or identifier))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 17:31
L5	71	wireless same base adj station and (ISP or switch or proxy) and server and (AVP or attribute adj value adj pairs)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 18:33
L6	0	(client\$3 or subscriber\$3) same wireless same (session adj3 (ID or identifier)) same (proxy or gateway or tunnel\$4) same (ISP or server) and L2TP and AVP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 18:33
L7	2	(client\$3 or subscriber\$3) same wireless same (session adj3 (ID or identifier)) and (proxy or gateway or tunnel\$4) and (ISP or server) and L2TP and AVP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 18:46
L8	0	"713"/\$4.ccls. and (client\$3 or subscriber\$3) and wireless same (session adj3 (ID or identifier)) and (proxy or gateway or tunnel\$4) and (ISP or server) and L2TP and AVP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 18:58
L9	3	"713"/\$4.ccls. and (client\$3 or subscriber\$3) and wireless same (session adj3 (ID or identifier)) and (proxy or gateway or tunnel\$4) and (ISP or server) and key and certificat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 18:58

## EAST Search History

L10	187	"713"/\$4.ccls. and(session adj3 (ID or identifier)) and (base adj station or proxy or gateway or tunnel\$4) and (ISP or server) and key and certificat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 19:20
L11	0	roam\$6 same maintain\$4 same (session\$4 with (ID or identifier\$4)) same base adj station\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/12/09 19:21
L12	17	roam\$4 same (id or identidifer) and 455/1\$\$.ccls. and handoff	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/12/09 19:22
L13	4	roam\$4 same cell same (id or identidifer) and 455/1\$4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/12/09 19:22
L14	1	(maintain\$4 or exist\$4 or "same") same (session\$4 with (ID or identifier\$4)) same (handover\$4 or (hand adj over\$4)) and hand adj off	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/12/09 19:26
L15	44	session adj3 (ID or identifier) same AVP or atributed adj value adj pair	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/09 19:40
L16	2	session adj3 (ID or identifier) same (AVP or atributed adj value adj pair\$3) and (ehance\$4 adj point adj4 point adj protocol or EPPP)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/09 20:01
L17	2	wireless same (ISP or switch or proxy) and (enhance\$4 adj point adj3 point adj protocol or EPPP)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 20:02
L18	16	new and (hand adj off or handoff or handover) same (establish\$4 or generat\$4 or allocat\$4 or assign\$4 or creat\$4) near session with (ID or identifier\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/09 20:02
L19	2	revis\$4 same version\$4 same (L2TP or layer adj3 two adj2 tunneling adj2 protocol) same (AVP or attribut\$4 adj2 value adj2 pair)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 20:09

## EAST Search History

L20	2	(ISP or switch or proxy) and (enhance\$4 adj point adj3 point adj protocol or EPPP)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 20:09
L21	2	wireless same (ISP or switch or proxy) and (enhance\$4 adj point adj3 point adj protocol or EPPP)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 20:10
L22	2	revis\$4 same version\$4 same (L2TP or layer adj3 two adj2 tunneling adj2 protocol)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 20:14
L23	9	extension\$4 same (AVP or attribut\$4 adj value adj pair) same (L2TP or layer adj3 two adj2 tunneling adj2 protocol)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/09 20:15